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CLAIMS

- 1. An ink composition comprising a) a liquid vehicle, b) at least one modified pigment comprising a pigment having attached at least one functional group, c) at least one salt having a polyvalent ion, and d) at least one polymer, wherein said functional group is capable of coordinating with said polyvalent ion.
- 2. The ink composition of claim 1, wherein the vehicle is an aqueous vehicle.
- The ink composition of claim 1, wherein the vehicle is a non-aqueous vehicle.
 - 4. The ink composition of claim 1, wherein the ink composition is an inkjet ink composition.
 - 5. The ink composition of claim 1, wherein the functional group comprises at least one organic group.
 - 6. The ink composition of claim 5, wherein the organic group comprises at least one ionic group, at least one ionizable group, or a mixture of at least one ionic group and at least one ionizable group.
 - 7. The ink composition of claim 5, wherein the organic group comprises at least one carboxylate group, sulfonate group, or ammonium group.
- 8. The ink composition of claim 1, wherein the functional group comprises at least one ionic group, at least one ionizable group, or a mixture of at least one ionic group and at least one ionizable group.
- 9. The ink composition of claim 1, wherein the functional group comprises at least one carboxylate group, sulfonate group, or ammonium group.

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- 10. The ink composition of claim 1, wherein the functional group is a polymeric group.
- 11. The ink composition of claim 1, wherein the pigment is carbon black, graphite, vitreous carbon, finely-divided carbon, activated carbon, activated charcoal, or mixtures thereof.
- 12. The ink composition of claim 11, wherein the pigment is carbon black.
- 13. The ink composition of claim 1, wherein the pigment is a white pigment, a black pigment, a blue pigment, a brown pigment, a cyan pigment, a green pigment, a violet pigment, a magenta pigment, a red pigment, a yellow pigment, shades thereof, or combinations thereof.
 - 14. The ink composition of claim 1, wherein the polyvalent ion of the salt comprises a polyvalent metal cation.
 - 15. The ink composition of claim 14, wherein the polyvalent metal cation is a divalent metal cation.
 - 16. The ink composition of claim 14, wherein the polyvalent metal cation is a calcium, cadmium, copper, iron, magnesium, nickel, zinc, aluminum, or zirconium cation.
- 17. The ink composition of claim 14, wherein the polyvalent metal cation is selected from the list consisting of: Ca⁺², Cd⁺², Cu⁺², Fe⁺², Mg⁺², Ni⁺², Zn⁺², Al⁺³, Fe⁺³, and Zr⁺⁴.
 - 18. The ink composition of claim 1, wherein the polyvalent ion of the salt is Zn^{+2} or Zr^{+4} .
 - 19. The ink composition of claim 1, wherein the polyvalent ion of the salt is Zn^{+2} .

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- 20. The ink composition of claim 1, wherein the salt comprises a polyvalent anion.
- 21. The ink composition of claim 1, wherein the polymer comprises at least one functional group capable of coordinating with the polyvalent ion.
- 22. The ink composition of claim 21, wherein the functional group comprises at least one ionic group, at least one ionzable group, or a mixture of at least one ionic group and at least one ionizable group.
- 23. The ink composition of claim 21, wherein the functional group comprises at least one carboxylate group, sulfonate group, or ammonium group.
- 24. The ink composition of claim 1, wherein the polymer is selected from the list consisting of: polyacrylic acid, polymethacrylic acid, copolymers of acrylic acid, copolymers of methacrylic acid, copolymers of maleic acid, and salts thereof.
- 25. The ink composition of claim 1, wherein the polymer is a styrene-acrylate polymer or a styrene-maleic acid polymer.
- 26. The ink composition of claim 1, wherein the functional group is the at least one polymer.
- 27. A method of generating an image comprising the steps of: 1) incorporating into a printing apparatus an ink composition comprising a liquid vehicle, at least one pigment comprising a pigment having attached at least one functional group, at least one salt with a polyvalent ion, and at least one polymer, and 2) generating an image on a substrate.
 - 28. The method of claim 27, wherein the liquid vehicle is an aqueous vehicle.
 - 29. The method of claim 27, wherein the liquid vehicle is a non-aqueous vehicle.

30. The method of claim 27, wherein the method is an inkjet ink printing method.